## INTERNATIONAL SEARCH REPORT

Intermedial Application No Pt., JB2004/004263

a. classification of subject matter IPC 7 F42B1/032 F42B3/28 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F42B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 6 371 219 B1 (COLLINS WILLIAM R ET AL) 1-21,27,Х 16 April 2002 (2002-04-16) column 2, line 42 - column 3, line 60; figure 2 EP 1 348 683 A (ALLIANT TECHSYSTEMS INC) 1 October 2003 (2003-10-01) 1-21,27,Χ paragraphs [0002], [0013], [0022]; figure 1a 1-4, EP 1 241 433 A (HALLIBURTON ENERGY Χ 10-21, SERVICES, INC) 18 September 2002 (2002-09-18) 27,28 paragraph [0021]; figure 2 Patent tamily members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means in the art. document published prior to the international filing date but later than the priority date claimed "8" document member of the same patent family Date of malling of the international search report Date of the actual completion of the international search 1.1 AUG. 2005 9 May 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Lostetter, Y Fax: (+31-70) 340-3016

Form PCT/ISA/210 (second sheet) (January 2004)

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## INTERNATIONAL SEARCH REPORT

national application No. PCT/GB2004/004263

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	(
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	(
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. X No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-21, 27, 28	
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-21,27,28

a component, a shaped charge perforator comprising such component, a perforator gun comprising such shaped charge and a method of improving fluid outflow from a well borehole by means of such a perforator gun.

2. claim: 22

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a compound for use in manufacture of components for shaped charge perforators.

3. claims: 23-26

a manufacturing method for a component for a shaped charge perforator.

4. claims: 29-31

a liner for a shaped charge perforator.

## INTERNATIONAL SEARCH REPORT

irmation on patent family members

International Application No
PC B2004/004263

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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EP 1241433	Α	18-09-2002	US CA EP WO	2002129724 A 2376565 A 1241433 A 02075099 A	\1 \2	19-09-2002 16-09-2002 18-09-2002 26-09-2002